

CLAIMS

A 583-1

1. A lutein solubilizate, comprising one part of a composition containing lutein and approximately 7 to approximately 9 parts of a polysorbate.
2. The solubilizate according to Claim 1, comprising approximately 3 weight-percent to approximately 15 weight-percent of the composition and approximately 75 weight-percent to approximately 85 weight-percent of the polysorbate.
3. The solubilizate according to Claim 1 or 2, containing polysorbate 80 as the polysorbate.
4. The solubilizate according to one of the preceding claims, also comprising approximately 10 weight-percent moderate-length-chain triglyceride.
5. The solubilizate according to one of the preceding claims, wherein the composition is obtained from plants and/or algae.
6. The solubilizate according to one of the preceding claims, which contains approximately 10 weight-percent to approximately 15 weight-percent water.
7. The solubilizate according to one of the preceding claims, wherein the composition contains approximately 10 weight-percent to approximately 30 weight-percent lutein.
8. The solubilizate according to one of the preceding claims, wherein the composition contains up to approximately 1 weight-percent zeaxanthin.
9. A method for manufacturing a lutein solubilizate according to one of the preceding claims, wherein a composition containing lutein is stirred with approximately seven to nine times the quantity of polysorbate until homogeneity is reached.
10. The method according to Claim 9, wherein approximately 5 weight-percent to approximately 15 weight-percent of the composition is stirred with approximately 75 to approximately 85 weight-percent of the polysorbate.

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11. The method according to Claim 9 or 10, wherein the stirring is performed at elevated temperature of approximately 90°C to approximately 100°C.
12. The method according to one of Claims 9 through 11, wherein the powdered composition is stirred with water at a temperature of approximately 45°C to approximately 50°C.
13. The method according to Claim 12, wherein the composition is stirred into approximately 10 weight-percent to approximately 15 weight-percent water.
14. The method according to one of Claims 9 through 13, wherein the polysorbate is mixed with a moderate-length-chain triglyceride at a temperature of approximately 60°C before it is mixed with the composition.